

# PEEYUSH AGARWAL

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## Academic Qualifications

Year	Degree	Institute	CPI / %
2016*	B.Tech.	Indian Institute of Technology, Kanpur	9.1/10
2012	AISSE (CBSE XII)	Saint Xavier's Sr. Sec. School, Jaipur	91.0%
2010	AISSE (CBSE X)	Saint Xavier's Sr. Sec. School, Jaipur	10/10

\*Expected Year of Graduation

## Scholastic Achievements

- Secured **All India Rank 171** among more than 5,00,000 students in **IIT-JEE 2012**
- Secured **All India Rank 746** (Top 0.07%) among more than 11,00,000 students in **AIEEE 2012**
- Secured **All India Rank 91** in **ISAT 2012** (Indian Institute of Space Science and Technology)
- Awarded **Certificate of Merit** (Top 1%) by CBSE for **outstanding performance** in **All India Secondary School Examination**
- Awarded **Kishore Vigyan Pratsahan Yojna fellowship** by Department of Science and Technology, Government of India
- Secured **1st position** in 5th Rajasthan State Level UCMAS Abacus and Mental Arithmetic Competition
- Secured **8th position** in 7th All India UCMAS Abacus and Mental Arithmetic Competition
- Received **Academic Excellence Award** for **outstanding performance** in academics at IIT Kanpur
- Selected for **Indian National Astronomy Olympiad** (Top 300 in the country)

## Projects

### Data Analytics Log Manager

*Google Summer of Code*

Made an application which aims to make complex analytics easy for not only programmers but also other users such as researchers, managers, designers etc. who may not have prior exposure to programming. It provides

- An API for receiving log data from multiple applications and storing them in a database
- Tools to analyze this data

The application provides a lot of flexibility on the type of log data. A single log entry can contain multiple arbitrary key value pairs.

The analytics component is powerful as well as easy to use. It supports

- Filtering of data using arbitrary key-values pairs
- Creating a parent-child relationship (Eg. grouping the data by username and visualizing logs for various usernames as child tables)
- Adding synthetic/computed data (Eg. the number of times a user performed some action)

The application supports authentication and authorization to help protect the data. Admin user can

- Create/delete admin users
- Assign applications to users such that a user can do analytics only on assigned applications

Code Repository [github.com/apeeyush/Data-Analytics-Log-Manager](https://github.com/apeeyush/Data-Analytics-Log-Manager)

Documentation [github.com/apeeyush/Data-Analytics-Log-Manager/wiki](https://github.com/apeeyush/Data-Analytics-Log-Manager/wiki)

### Content Aware Mail Classifier

*Programming Club, IIT Kanpur*

Created a mail classifier based on bag of words model using publicly available Enron mail database

- Studied and implemented various supervised learning algorithms like Multiclass-SVM, Naive Bayes and Random forests
- Also used basic Natural Language Processing techniques like POS-tagging and stemming

Built the main testing and classification module using python, python-nltk, scikit-learn and weka

Also built a prototype for Gmail using Google App script

### Customer Engagement Platform for Retailers

*Entrepreneurial Exploration*

Used Ruby on Rails to build a platform for retailers which consists of

- A web app (optimized for tablets) to collect customer feedback and contact details
- Functionality to send Thank You SMS and Email to customers
- Different access levels from store staff to store owner
- Analytics of data collected from customers

## Online Medical Store

### Open Source Project

- Built a store consisting of Products Maintenance System, Catalog, Cart and Check Out System using Ruby on Rails
- Hosted it on AWS and Heroku

## Eduvate

### Open Source Project

- Built an educational web app to help children master a language faster
- It displays words randomly and analyzes user's pronunciation using Google's Speech2Text API
- Also tells the correct pronunciation

## Moody Trudes!

### Yahoo!'s R&D Team

- Used Machine Learning to analyze the mood of a person based on his/her social media updates
- Suggested music and images based on mood

## Technical Skills

Programming Languages	C++, Ruby, C, Python, Shell Scripting, Perl, MySQL
Web Development	HTML, CSS, JavaScript, Ruby on Rails, jQuery, KnockoutJS, Bootstrap, RSpec
Tools	Latex, GIT, Octave, Weka
Cloud Platforms	AWS, Heroku

## Relevant Courses

Fundamentals of Computing	Data Structures and Algorithms	Computer Organization
Computing Laboratory	Discrete Mathematics	Advanced Algorithms
Introduction to Logic	Abstract Algebra	Computing Laboratory II*
Operating Systems*	Theory of Computation*	Computer Networks*
Machine Learning	Partial Differential Equations	Complex Numbers
Linear Algebra	Fundamentals of Calculus	

\*Ongoing

## Positions of Responsibility

### Executive, Professional Affairs, Techkriti'14

Led a team of more than 20 students to

- Invite eminent personalities/professionals for Talks, Shows and Exhibitions
- Look after their publicity, travel arrangements and hospitality

### Coordinator, Computing Events, Techkriti'14

Created and tested problem statements for Programming events

### Mentor, Association of Computing Activities, IIT Kanpur

- Mentored 3 CS students, introducing them to Web Development (through Ruby on Rails)
- Organized sessions to teach web development and helped them build an online store

### Assistant Coordinator, VYLC 2013

Managed events and competitions organized in the Vivekananda Youth Leadership Convention 2013